Pusat Pengajian Pengkomputeran

SCHOOL OF COMPUTING

Universiti Utara Malaysia

UNIVERSITI UTARA MALAYSIA

PRACTICUM STIX3912

SEMESTER A201 SESSION 2020/2021

PROPOSAL

Title: Enhancement of Techno Commercial Leadership Development (TCLD) Progamme Database

STUDENT

Matric No.	:	256677
Name	:	Doha binti Dzahari
Email	:	doha.dzahari96@gmail.com
Mobile	:	017-5822523

Name	:	Petroliam Nasional Berhad
Address	:	Top Talent Management Department, Level 63, Tower 1, PETRONAS TWIN TOWERS, KLCC, 50088, Kuala Lumpur

SUPERVISOR (ORGANIZATION)

Name	:	Zainul Abidin Semangun@Suaib
Telephone	:	013-3918879

Table of Contents

1.0 INTRODUCTION

Techno Commercial Leadership Development (TCLD) Programme was established in 2012 to identify and groom more technical top talents with commercial skills, business acumen and social exposure to be a well-rounded techno-commercial leader by providing the opportunity to pursue an MBA at leading international business schools.

1.1 Project Background

The main objective to develop TCLD database is to record relevant information and data of the TCLD candidates for ease of reference. As of now, the database only stores the basic information data of the candidates and moving forward, the database can be further enhanced by creating a simple dashboard to provide a big picture on the overall TCLD's candidates demographic in order to understand TCLD's candidates better.

In addition to that, the enhanced TCLD database will be able to simplify the data output to ensure fields like candidate's position title, salary grade, etc are standardized and streamlined with the information downloaded from PETRONAS overall staff database.

1.2 Problem Statement

Currently, TCLD database is maintained irregularly. As such, moving forward, the enhanced TCLD database aims to simplify and automate the data inputs during data gathering and to provide a clearer and practical data output via the database dashboard. With the dashboard it will be able to provide the user to visualize the information clearly.

Apart from that, as of now the overall data is inserted manually (column by column). With the availability of the enhanced database, user will be able to key in the staff number in the output database and it will be streamlined to make it more efficient, consistent and accurate reporting.

1.3 Objectives

The main objective of this project is to enhance the current TCLD database. Below are the sub-objectives of the project:

a) To identify the requirements needed to improve the database system for the user.
b) To design the database to have the user usability and functionality.
c) To develop the usability and functionality of TCLD database.
d) To test the usability of TCLD database within the user in the company.

1.4 Project Scope

The users of the database will be within the Human Resources (HR) Staff in Petronas only. This database has been developed to help the Human Resources (HR) staff in storing, searching and updating the data. The database needs some enhancement in order to be more organize and efficient in storing data.

1.5 Project Significance

The database enhancement project will be able to provide the users in the company to manage the data in-efficient ways. In addition to that, it will make the process of storing and updating become easier and simpler. Currently, the database is managed manually which could possibly resulted to inconsistency in data entry, room for errors, mis-keying information.

By enhancing the database, it will be able to incorporate new updates and information and by doing this it will be able to improve data accuracy.

2.0 PROJECT PLANNING

Project planning are the most important part where all the methodology used, tools and timeline to complete the project will be assign accordingly in order to develop and implement the project smoothly.

2.1 Methodology

This project will be conducted by adopting System Prototyping (Dennis et al., 2012, p.55). There are four basic processes of system prototyping as illustrated in Figure 1.
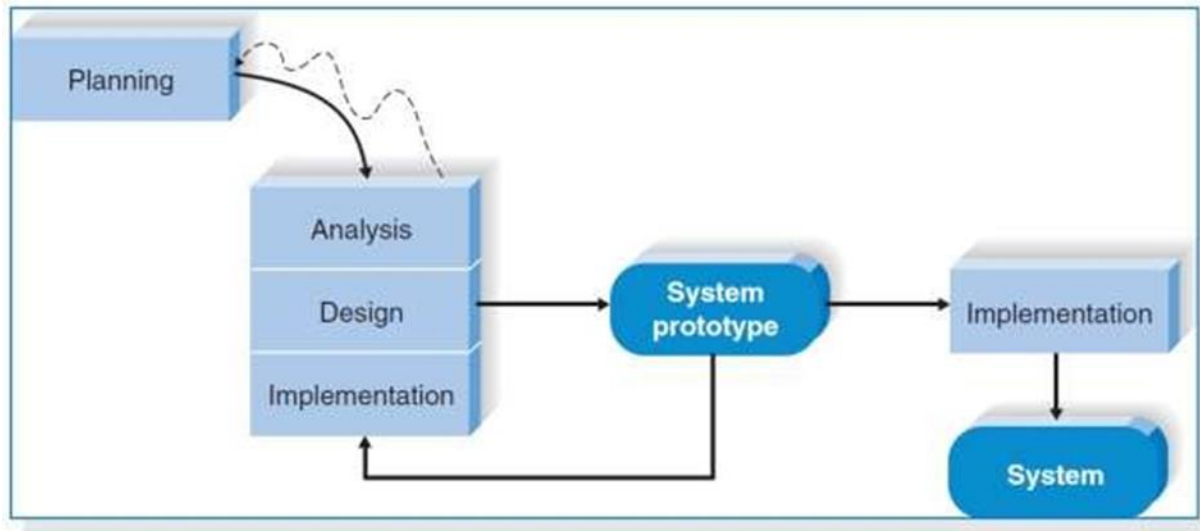

Figure 1: The Project Methodology (Dennis, et al., 2012, p.55).

This methodology is suitable for the project because it has short time schedule to complete the project. The methodology gives clear steps on developing the project. This system prototyping has 4 phase which are planning phases, analysis phases, design phases and implementation phases.

Planning: A problem was identified in the current TCLD database system in the company where users find the database are unorganized and difficult to key in. At this stage a plan is proposed to develop an upgraded database that can assists the user to store the details accordingly in easier ways. A project proposal is drafted explaining the problems happens in the TCLD database, the objective of the project, the significant of the project, the scope of the project and the schedule of the project.

Analysis: The requirement of the TCLD Database will be analyzed by conducting a requirements analysis process. The activities involved in this phase are identifying the problem and the solutions that needs to be taken. The requirement will be gathered by interviewing the current users in the company. The design or the sketches of the user interfaces will also be produced at this stage.

Design: In designing the new look of TCLD database, the dashboard also needs to be more attractive in visualize the data recorded. Furthermore, the database needs to add up with data entry form for the user to record, store and update the details and information of the staff easily. Next, the database also will be more attractive with the staff's profile display at the database including their picture.

Implementations: In implementation stage it begins when all the functions are tested, and it meets the users need. Furthermore, the users are satisfied with the result that has being study. The system will finally be implemented, and the users can use a whole working database. The users can inform the developer if there is any bug or error that may occur and need to be fixed during this implementation phase

2.2 Feasibility Study

Feasibility study is important to evaluate the project details before the development start in order to ensure the project development flow according to the timeline.

2.2.1 Tools

The hardware that will be used during the development is HP Laptop intel Core i7 8th gen and the software that will be used is Microsoft Excel 365 pro plus.

2.2.2 Gantt Chart

Determining the schedule for each activity on the project is very important in order to be able to estimate the amount of time needed to complete a project. The schedule of this project is using Gantt Chart as illustrated in Figure 2.

ACTIVITY	OCTOBER		NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH				APRIL	
Topic Selection	▓																							
Planning	▓	▓																						
Analysis			▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓										
Design															▓	▓	▓							
Implementation																		▓	▓	▓	▓			
WEEK	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

Figure 2: Gantt Chart of the Project

3.0 SUMMARY

TCLD Database enhancement project will be able to help user to optimize their work and time. It will be able to key in the staff number in the output database and it will be streamlined to make it more efficient, consistent and accurate reporting. Currently, the database is unorganized and inconsistent in storing data. To make it look more professional in storing data, it will be adding up with data entry form for the details. Furthermore, the database also will be added up with dashboard to visualize the data recorded. It will make it easier for the user to analyze the recorded data from the whole database. So, the database will be nicer and more convenient to use.

4.0 REFERENCES

Alan Dennis, Barbara Wixom, Roberta M. Roth, "System Analysis and design", 5th edition, John Wiley & Sons, 2012.

Prepared by:

Student's Signature: **Date: 6/11/2020**

Doha

_____

Endorsed by:

Organization's Supervisor Signature: **Date: 6/11/2020**

_____

Zainul Abidin bin Semangun@Suaib

Manager Top Talent Development